Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A video signal processing system, comprising: for a plurality of color channels, a control circuit and clamping circuit for generating a color channel reference signal and controlling a color channel video signal for each color channel, a minimum signal detector that receives the color channel reference signals as input and is arranged to output, as a minimum signal level, a signal level of a color channel reference signal having the lowest signal level from among the color channel reference signals, and a brightness limitation circuit coupled to receive the color channel reference signal from each of the color channels and coupled to provide a feedback signal to regulate a brightness level of each video signal according to a comparison of a-the minimum signal level selected from among the color channel reference signals-and a fixed reference signal level.
- 2. (Previously Presented) The video signal processing system of claim 1, wherein the brightness limitation circuit comprises a minimum detection circuit formed with diodes for detecting and outputting a minimum signal level from amongst the color channel reference signals, and a comparator having as inputs said fixed reference signal level and said minimum signal level, and producing said feedback signal as output.
- 3. (Previously Presented) The video signal processing system of claim 2, wherein said comparator is coupled to receive said minimum signal level at its negative input and said fixed reference signal level at its positive input.

- 4. (Previously Presented) The video signal processing system of claim 2, wherein each said control circuit includes a plurality of adders coupled in the signal path of the corresponding color channel reference signal, and wherein said feedback signal is coupled as input to one of said adders.
- 5. (Previously Presented) The video signal processing system of claim 4, wherein said feedback signal is coupled from the brightness limitation circuit to the control circuit by way of a brightness control circuit which enables manual brightness adjustment of the color channels.
- 6. (Previously Presented) The video signal processing system of claim 5, wherein said brightness control circuit incorporates an adder for combining the feedback signal with a manual brightness adjustment signal.
- 7. (Previously Presented) The video signal processing system of claim 4, further including at least one cut-off adjustment circuit coupled to provide input to a respective adder in the signal path of the color channel reference signal in each control circuit.
- 8. (Previously Presented) The video signal processing system of claim 1, wherein each said control circuit includes an adder circuit coupled in the signal path of the corresponding color channel video signal, and wherein a feedback signal from said clamping circuit, generated according to the color channel video signal and the color channel reference signal, is coupled as input to the adder circuit.
- 9. (Currently Amended) A video signal processing circuit for regulating a plurality of color channel video information signals, comprising: a minimum signal detector for detecting that receives a plurality of color channel reference signals as input and is arranged to output, as a minimum signal level, a signal level of a color channel reference signal having the lowest signal level from among a-the plurality of color channel reference signals, a comparator

that compares said minimum signal level with a fixed voltage reference signal and generates a corresponding output, and an additive feedback coupling of said comparator output signal and each of said color channel reference signals.

- 10. (Previously Presented) The video signal processing circuit of claim 9, comprising a brightness control circuit for adjusting the video signal brightness level by manual adjustment of said color channel reference signals, wherein said additive feedback coupling of said comparator output signal is coupled through said brightness control circuit.
 - 11. (Currently Amended) A video signal brightness controller, comprising:
- a plurality of color channel control means each coupled to receive as input a respective color channel video signal and color channel reference signal and to generate a respective adjusted color channel video signal and adjusted color channel reference signal;
- a plurality of clamping means, each clamping means corresponding to a respective color channel control means and coupled to receive as input the respective adjusted color channel video signal and adjusted color channel reference signal and to produce a corresponding clamping feedback signal; and
- a brightness limitation means coupled to receive the adjusted color channel reference signal from each color channel control means to produce a corresponding brightness feedback signal based on a detection of a minimum signal level from signal level of a color channel reference signal having the lowest signal level among the plurality of adjusted color channel reference signals;

wherein each said color channel control means includes a first adder in path of the color channel video signal, to which said clamping feedback signal is coupled, and a second adder in the path of the color channel reference signal, to which said brightness feedback signal is coupled.

12. (Previously Presented) The video signal brightness controller of claim 11, wherein said brightness limitation means comprises a minimum signal level detector or detecting

the minimum signal level from among the plurality of adjusted color channel reference signals, and a comparator for generating said brightness feedback signal on the basis of the detected minimum signal level and a fixed reference signal level.

- 13. (Currently Amended) A method for regulating color channel video information signals, comprising the steps of detecting-receiving a plurality of color channel reference signals, outputting, as a minimum signal level, a signal level of a color channel reference signal having the lowest signal level amongst a-the received plurality of color channel reference signals, comparing said minimum signal level with a fixed voltage reference signal and generating a corresponding comparator output, and providing an additive feedback coupling of said comparator output signal and each of said color channel reference signals.
- 14. (Currently Amended) A video signal brightness control circuit for regulating brightness of at least one color video channel, comprising:
- a brightness limitation control circuit configured to receive a plurality of color reference signals and configured to generate a feedback signal to regulate the brightness of the at least one color-video channel based on detection of a minimum signal level signal level of a color reference signal having the lowest signal level from among the plurality of color reference signals.
- 15. (Currently Amended) A—<u>The</u> video signal brightness control circuit<u>of</u> claim 14, wherein for regulating brightness of a plurality of color video channels, comprising:

a brightness limitation control circuit to receive a color reference signal from each of the plurality of color video channels and configured to generate a feedback signal based on detection of a minimum signal level from among the plurality of color reference signals to regulate the brightness of the color video channels, the feedback signal <u>is</u> responsive to a comparison between a reference signal and the minimum signal level from the <u>at least one</u> color reference <u>signals-signal</u> from the <u>at least one</u> color video <u>channelschannel</u>.

- 16. (Currently Amended) A—<u>The</u> video signal brightness control circuit<u>of</u> claim 15, comprising:
- a plurality of color channel control circuits, each configured to receive a respective color channel video signal at a first adder and a color <u>respective</u> channel reference signal at a second adder and to generate a respective adjusted color channel video signal and <u>a</u> respective adjusted color reference signal;

a plurality of clamping circuits, each coupled to a respective color channel control circuit to receive the adjusted color channel video signal and adjusted color reference signal and configured to generate a respective video clamping feedback signal that is received at the first adder of the respective color channel control circuit; and

wherein the brightness limitation control circuit comprises a brightness limitation circuit coupled to each of the plurality of color channel control eircuits circuit and configured to generate a brightness feedback signal to the second adder in the respective color channel control circuit based on detection of a minimum signal level from signal level of an adjusted color reference signal having the lowest signal level among the adjusted color reference signals.

17. (Currently Amended) A-The video signal brightness control circuit—for regulating brightness of a plurality of color video channels of claim 16, comprising :

a plurality of color channel control circuits each configured to receive a respective color channel video signal at a first adder and a color channel reference signal at a second adder and to generate a respective adjusted color channel video signal and adjusted color reference signal;

a plurality of clamping circuits each coupled to a respective color channel control circuit, each configured to receive the adjusted color channel video signal and the adjusted color reference signal and to generate respective clamping feedback signals that are received by the respective color channel control circuits at the first adder;

a brightness limitation circuit coupled to each of the plurality of color channel control circuits and configured to receive the adjusted color channel video signal from each of the color channel control circuits and to generate a brightness feedback signal based on a

minimum adjusted color reference signal detected from among the plurality of adjusted color reference signals; and

a brightness circuit coupled to the brightness limitation circuit for each of the color video channels and configured to generate a user-adjustable brightness limitation signal to the second adder in each of the plurality of color channel control circuits.

18. (Canceled)

19. (Currently Amended) A—<u>The</u> method of—<u>controlling video signal</u> brightness of a plurality of color video channels, comprising: <u>claim 13</u>, wherein receiving the plurality of color channel reference signals comprises:

receiving a plurality of color channel video signals and corresponding color channel reference signals and generating in response thereto respective adjusted color channel video signals and adjusted color reference signals;

receiving the adjusted color channel video signals and adjusted color reference signals and generating in response thereto respective clamping feedback signals;

adding the clamping feedback signals to the color channel video signals; and

receiving the adjusted color channel video signals and generating in response thereto a respective brightness limitation signal that is added to the color channel reference signal based on a-the detected minimum voltage level adjusted color reference signal level of an adjusted color reference signal having the lowest signal level from among the adjusted color reference signals.

20. (Currently Amended) A—The method of controlling video signal brightness of a color video channel, comprising: claim 19, wherein receiving the plurality of color channel video signals, corresponding color reference originals, adjusted color channel video signals, and adjusted color channel reference signals comprises:

receiving at a color channel control circuit a-the color channel video signal signals and a-color channel reference signal signals and generating in response thereto an-the adjusted color channel video signal signals and an-adjusted color reference-signal signals;

receiving at a clamping circuit the adjusted color channel video signal-signals and adjusted color reference signal-signals and generating in response thereto a-clamping feedback signal signals; and

receiving the clamping feedback <u>signal-signals</u> at the color channel control circuit and adding the clamping feedback <u>signal-signals</u> to the color channel video-<u>signal signals</u>; and

receiving the adjusted color channel video signal at a brightness limitation circuit and generating in response thereto a brightness limitation signal based on a detected minimum voltage level adjusted color reference signal from among the adjusted color reference signals and that is received at the color channel control circuit and added to the color channel reference signal.